

Attempted suicide in immigrants from Turkey – a comparison with Swiss suicide attempters

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Abstract

Background and Aims: Turkish migrants have been shown to have an increased rate of suicide attempts as compared to native local populations and also to Turkey. In this small study we have conducted in-depth interviews with patients regarding their reasons for the attempt.

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Subjects and Methods: 70 Turkish immigrants admitted to the emergency unit of the Basel University Hospital after a suicide attempt were interviewed. 70 Swiss suicide attempters, matched for age and sex, served as a comparator (Case Control Study).

Results: Turkish immigrants showed high rates of suicide attempts. The gender ratio (women/men) was 2.2; 38.6% of all Turkish suicide attempters were women aged between 15 and 25 years.

Most patients mentioned problems in their partnerships as main reason for the suicide attempt (63% of Swiss and 54% of Turkish patients). 14% of the Swiss, but none of the Turkish suicide attempters named social isolation as a cause. 9% of the Turkish patients reported “threat of loss/rejection of status as refugee” as main reason.

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Gelöscht: or

Immigrants used analgesics more often, whilst Swiss patients tended to favour benzodiazepines.

Conclusions: Our study suggests that cultural and immigration-specific issues play a role in the suicidal behaviour of immigrants. Turkish women aged between 15 and 25 years seem to be at an especially high risk.

Keywords: attempted suicide, gender, migration, violence, partnership

Introduction

Mental health issues in immigrants living in Europe are of considerable social and economic concern. Over 3 million immigrants from Turkey live in Central and Western Europe. There are indications that suicide and suicidal behaviour is more frequent in immigrants [\[1-10\]](#).

Gelöscht: [1-10]. Although suicide rates

[Although rates of suicidal behaviour](#) in Turkey used to be comparatively low, recent studies show increasing rates of suicide and suicide attempt in Turkey [\[11, 12\]](#).

Gelöscht: [11]

A careful study of the problems leading to attempted suicide is important to prevent future suicidal behaviour [\[13\]](#). Risk factors and characteristics of suicide attempters have been studied mostly in Western countries but have rarely focused on immigrants. There are indications, however, that immigrants with psychiatric disorders differ from natives in certain socio-demographic features. For Switzerland, it has been shown that Turkish immigrants with psychiatric disorders are more frequently married and are more strongly integrated into their families than Swiss patients, but that they also tend to have more problems within their families [\[14\]](#).

Gelöscht: [12].

It is still not well documented whether or not suicide attempters among the immigrant population specifically manifest these differences compared to the citizens of their host country. So far, ethnic differences in suicidal behaviour have been insufficiently studied, particularly in immigrants from Turkey, rendering specialized prevention programs in this field particularly challenging.

Gelöscht: [13].

Aims of the study

This study aims to describe Turkish immigrants living in [the county of Basel-City](#), Switzerland, who attempted suicide, and to compare them with a matched group of Swiss suicide attempters with respect to the main problems leading to the suicide attempt, the methods used in these attempts, and the potential influence of alcohol and/or illegal drug abuse.

Subjects and Methods

Study population

In the study period the population of Basel county (all nationalities) ranged from 198,094 in 1991 to 194,253 in 1997, of whom 151,400 (1991) and 142,279 (1997) were Swiss. The Turkish immigrant population increased from 4878 to 5747 from 1991 to 1997.

The study population (n = 70) included all immigrants from Turkey living in the county of Basel-City who were admitted to the Basel University Hospital emergency service after attempted suicide between January 1, 1991, and December 31, 1997. Subjects of either sex, aged ≥15 years, were included. The University Hospital of Basel is the main emergency

service provider for persons in the Basel region who are hospitalized after attempted suicide and all more severe cases are referred to this unit. For each case the next Swiss patient with the same sex and age group referred to our emergency unit after attempted suicide during the same time period (±1 year) was selected for the control group (Case Control Study).

Gelöscht: . ¶
A group of

Gelöscht: patients (n = 70)

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Gelöscht: of immigrants according to age and sex. Matching the two groups was necessary because our study sample of Turkish immigrants mostly consisted of young women.

Data collection

Patient data were collected by means of an examination performed by the consulting psychiatrist of our Psychiatric Outpatient Department. a Turkish migrant himself, within the first 72 hours after admission. The study questions were part of our routine clinical interview and crisis intervention and were documented on a standardized score sheet.

Gelöscht: results

Gelöscht: the examination

Data collected included age, sex, number of previous suicide attempts, age at first suicide attempt, age at immigration, marital status, living situation, employment status, the method used in attempting suicide, the main problems associated with the suicide attempt, substance abuse (alcohol and/or illegal drugs according to ICD-10), and aftercare arrangements.

Suicidal behaviour was defined as 'an act with nonfatal outcome, in which an individual deliberately initiates a non-habitual behaviour that, without intervention from others, will cause self-harm, or deliberately ingests a substance in excess of the prescribed or generally recognized therapeutic dosage, and which is aimed at realizing changes which the subject desired via the actual or expected physical consequences' [15]. Self-harming acts by subjects who were unable to understand the significance or consequences of their own actions (for example, because of mental subnormality or insanity) were excluded.

Gelöscht: nonhabitual

Gelöscht: [14].

The main problems associated with the suicide attempts were defined as those that were named by the patient at the time of the interview or that were judged by the clinical assessor to present at the time of the incident. If a patient was admitted to the emergency unit after a

suicide attempt more than once during the study period, only the data from the first admission were used. If attempted self-poisoning by an individual involved more than one substance, each substance was included in the analysis.

The study has been approved by the Ethics Committee of Basel, Switzerland (EKBB).

Statistical analysis

Annual suicide-attempt rates of the Turkish population were calculated per 100,000 persons of the total population. In addition, the rates were computed separately for women and men. The data were analysed by means of independent Student t-Test, Chi-Square Tests, and Fisher's Exact Tests where appropriate, using SPSS for Windows, Version 10.0.

Gelöscht: Suicide

Results

Turkish immigrants

Demographic data

Of the suicide attempters from Turkey, 48 (68.6%) were women, while 22 (31.4%) were men (Table 1). The ratio of women to men was 2.18. The mean age was 26.7 years ($SD \pm 9.8$) for women, 29.4 years ($SD \pm 7.9$) for men, and 27.6 years ($SD \pm 9.23$) for the total Turkish group.

Overall, 27 (56.3%) female and 6 (27.3%) male suicide attempters were below the age of 25 years. Thus, women below the age of 25 years accounted for 27 (38.6%) of the 70 suicide attempters in our group of Turkish immigrants.

Gelöscht: but only

Fifteen (68.2%) men and 14 (29.2%) women were between 25 and 39 years old. None of the women was older than 54 years, and none of the men was older than 49 years (Table 1).

Insert Table 1 about here

Annual rates of attempted suicide (per 100,000 persons)

Gelöscht: Rates

Yearly rates of attempted suicide were calculated on the basis of the Turkish population (all individuals aged >15 years) living in Basel-City (Statistical Office of Basel-City 2004). The annual rate of attempted suicide was approximately 2 to 4 times higher in women than in men in each year (Table 2).

Gelöscht: The

Insert Table 2 about here

Interval between immigration and first suicide attempt

Five (7.1%) Turkish suicide attempters were born in Switzerland. Of these, four were women and one was a man. Mean age at the time of immigration of the remaining patients was 19.5 years ($SD \pm 8.7$). Women were slightly younger than men at the time of immigration (18.2 years, $SD \pm 8.7$, versus 22.2 years, $SD \pm 8.2$), but the difference was not statistically significant ($t = 1.78$, $df = 63$, $p = 0.079$).

One (1.4%) of the suicide attempters had committed his first suicide attempt before immigration. If this patient, along with the five Turkish suicide attempters born in Switzerland, was excluded from the analysis, the mean interval between immigration and the first suicide attempt was 8.9 years ($SD \pm 5.0$) in women and 7.6 years ($SD \pm 4.7$) in men (Table 3).

Insert Table 3 about here

Eight (40.0%) Turkish men and 14 (31.8%) Turkish women attempted suicide within 5 years after immigration. With increasing time after immigration, the percentages of suicide attempters decreased at a constant rate among men but not among women (Figure 1).

Insert Figure 1 about here

Comparison between Turkish and Swiss suicide attempters

Matching

Swiss patients ($n = 70$) were matched with the group of immigrants according to age and sex: gender was equally distributed in the Swiss as in the Turkish patients ($n=48$ women, $n=22$ men from each group). The mean age at the first suicide attempt was 27.0 years ($SD \pm 8.9$) in the Turkish group and 25.2 years ($SD \pm 9.5$) in the Swiss group. This difference was not significant ($t = 1.15$, $df = 138$, $p = 0.25$, independent t-test).

Marital status

Significantly fewer Turkish than Swiss suicide attempters were unmarried (22 [31.4%] Turkish patients versus 48 [68.6%] Swiss patients). Eight (11.4%) Turkish attempters and 12 (17.1%) Swiss attempters were divorced or widowed ($\chi^2 = 28.5$, $df = 2$, $p < 0.001$).

Living situation

Overall, 44 (62.9%) Turkish individuals and 17 (24.3%) Swiss individuals lived with a partner and/or with children. Fourteen (20.0%) Turkish suicide attempters and 23 (32.9%) Swiss suicide attempters lived with parents or relatives. Eleven (15.7%) individuals in the Turkish group lived alone, compared to 18 (25.7%) individuals in the Swiss group. One (1.4%) immigrant and 12 (17.1%) Swiss individuals lived with other persons or in an institution. This difference was significant ($\chi^2 = 25.1$, $df = 3$, $p < 0.001$).

Employment

Of the Turkish patients, 39 (55.7%) were employed (including those working in part-time jobs), as compared to 28 (40.0%) of the Swiss patients. Ten (14.3%) Swiss patients and seven (10.0%) immigrants were unemployed. In the immigrant group, 15 (21.4%) patients were housewives or early-age pensioners, as compared to 14 (20.0%) patients in the Swiss group. Nine (12.9%) Turkish suicide attempters and 18 (25.7%) Swiss suicide attempters were still in education ($\chi^2 = 5.4$, $df = 3$, $p = 0.20$).

Main problems associated with suicide attempts

In both groups of suicide attempters, relationship difficulties were named most frequently as the main problem associated with the suicide attempt. But there were significant differences between both populations ($p \leq .01$, Table 4). No member of the Turkish group reported social isolation as the main problem, while 10 (14.3%) patients in the Swiss group named social isolation as their key problem. Six (8.6%) of the Turkish patients reported “threat or rejection of status as refugee” as main reason for suicide attempt.

Gelöscht: (Table 4).

Insert Table 4 about here

Violence in the partnership

Violence in the partnership was reported more often in the Turkish immigrant group than in the Swiss group. In total, 8 (18.2%) of 44 Turkish female suicide attempters who reported problems in the partnership were victims of physical violence, but no Swiss patient reported violence in their partnership as one of their main problems. This difference was significant ($\chi^2 = 5.73$, $df = 1$, $p < 0.05$).

Alcohol and illegal drug abuse (ICD-10)

There were no significant differences between the two groups with respect to alcohol abuse. Four (5.7%) patients in the immigrant group and 10 (14.3%) patients in the Swiss group were dependent on alcohol without using illegal drugs ($\chi^2 = 1.98$, $df = 1$, $p = 0.17$). However, illegal drug abuse was significantly more frequent in the Swiss group. No immigrant was dependent on illegal drugs, while 17 (24.3%) Swiss patients were dependent on illegal drugs (with or without alcohol abuse), ($\chi^2 = 17.14$, $df = 1$, $p < 0.001$).

Method of suicide attempts

There were no significant differences between the two groups regarding the frequency of self-poisoning as compared to self-injury. However, Turkish patients predominantly used non-narcotic analgesics, while Swiss patients mostly used benzodiazepines for self-poisoning (Table 5).

Insert Table 5 about here

History of suicide attempts

In the Swiss group of suicide attempters, 22 (31.4%) were repeaters, as compared to 15 (21.4%) in the Turkish group ($\chi^2 = 1.32$, $df = 1$, $p = 0.25$).

Aftercare arrangements

The study revealed no significant differences between Turkish and Swiss suicide attempters with regard to aftercare arrangements ($\chi^2 = 1.19$, $df = 2$, $p = 0.55$). Twenty-six (37.1%) Turkish attempters and 29 (41.4%) Swiss attempters were hospitalized in the psychiatric crisis intervention unit, an inpatient unit for ultra-short-term hospitalization (up to 4 days) that is part of the Psychiatric Department at the general University Hospital of Basel. Longer inpatient treatment in a psychiatric hospital was recommended in 17 (24.3%) Turkish cases and in 18 (25.7%) Swiss cases. Out-patient treatment was recommended in 27 (38.6%) Turkish suicide attempters and in 23 (32.9%) Swiss suicide attempters.

Discussion

Our study showed very high rates of severe suicide attempts in Turkish immigrants in the county of Basel-City, Switzerland in the years 1991-1997. The rates were between 267.38 and

322.45 per 100,000 individuals in female and between 67.93 and 104.95 per 100,000 persons in male immigrants. As the University Hospital of Basel provides the main emergency service for the Basel catchment area, our results can be regarded as roughly representative for Turkish immigrants who are referred to an emergency service after attempted suicide.

In Switzerland suicide attempts were also investigated based on representative populations by the WHO-Euro-Multicenter Study on Parasuicide [16-18]. Suicide-attempt rates among Swiss women were reported to be 178 per 100,000 persons and 119 per 100,000 persons in 1990. For the Swiss men, the corresponding rates were 130 per 100,000 persons in 1989 and 99 per 100,000 persons in 1990. For the county of Basel, Switzerland, we could recently, also based on representative data, report yearly rates for the years 2003/2004, which were as high as 646 per 100,000 persons in Turkish immigrant women and 311 per 100,000 persons in Turkish immigrant men, but 172 per 100,000 persons in Swiss women and 81 per 100,000 in Swiss men [10]. In a multi-centre study from Turkey, rates of suicide attempt in the period from 1998 to 2001 were between 85.59 and 163.07 per 100,000 persons a year in women and between 31.86 and 64.15 per 100,000 persons a year in men [11]. This indicates that the rates of attempted suicide in Turkish immigrants are higher than in the Swiss population as well as the Turkish population living in Turkey.

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As regards age in our study, only 1.4% of the immigrant suicide attempters were over 54 years old, although the proportion of the Basel population of Turkish immigrants beyond the age of 54 years amounts to 3.9% (Statistical Office, Basel-City, 2004). This suggests that older immigrants commit fewer suicide attempts than younger immigrants. Sayil [12] also reported that only 1.37% of the suicide attempters referred to the University Hospital in Ankara were over 54 years old.

Gelöscht: [18]

The ratio of women to men among Turkish immigrant suicide attempters was 2.2 in our study. Also in our recent study in Basel in 2003/2004 in Turkish as well as in Swiss suicide attempters the ratio women to men was 2.1 [10]. For the Swiss urban citizens of Berne, a town of a size comparable to that of Basel, Michel et al. [17] found the ratio of women to men in suicide attempters to be 1.6. For Turkish suicide attempters living in Ankara, Sayil [12] reported a ratio of 1.9, and in a study in Mamak, Ankara, Devrimci-Özgüven and Sayil [11] found the ratio to be between 1.8 and 2.5 from 1998 to 2001, always with women in the majority. In the WHO/EURO Multicenter study Baskak et al. [19] found the ratio of women

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to men in 236 Turkish immigrants living in Europe to be 1.87 compared with a ratio of 2.72 in Turkish suicide attempters living in Turkey. In another study Savil and Devrimci-Ozgüven [20] reported a gender ratio of 2.3 in suicide attempters living in Turkey in a half-year period.

Thus, the ratio of female to male suicide attempters among immigrants from Turkey seems to be the same as for the Swiss population and comparable to that of Turkish citizens resident in Turkey.

Although there was no significant difference between male and female Turkish immigrants with respect to the *interval between immigration and first suicide attempt*, there was a tendency in men for the frequency of suicide attempts to decrease over time. In contrast, attempted suicide in women appeared to be most frequent 10 to 14 years after immigration. This might be understood together with the fact that these women are often very young – mainly between 18 and 25 years of age. Many of them have obviously been brought to Switzerland as children, have been educated in Swiss schools and might be confronted with intercultural role conflicts only when they approach adolescence or early adulthood.

In our study the mean age of Turkish immigrant suicide attempters was 27.6 years. This is very close to the findings of Baskak et al. [19] of 27.7 years in Turkish immigrants living in Europe. Devrimci-Özguven et al. [21] found the mean age of all immigrants (Turkish and non-Turkish) living in Europe to be 33.7 years. Therefore, the mean age of Turkish suicide attempters seems to be lower than that of the overall immigrant suicide attempters living in Europe.

As many as 38.6% of all Turkish suicide attempters in our study were women aged between 15 and 25 years, although only 14.95% (mean proportion) of the Turkish population in the city of Basel (1991 to 1997) consisted of women aged 15 to 25 years (Statistical Office, Basel-City, 2004). Thus, female Turkish immigrants aged 15 to 25 years seem to be at a particularly high risk of suicidal behaviour. This result is consistent with that of Brückner et al. [10] and also Burger et al. [8], who also found the highest risk for attempted suicide in 15-24 year-old Turkish women in Basel, Switzerland, and The Hague, Netherlands respectively.

Gelöscht: [10] and also Burger et al. [8]

There are several possible explanations for the *high percentage of young women among the Turkish suicide attempters*. Young women may suffer especially from the traditional hierarchical family structure which defines the role of young women in strong contrast to

Western societies. This often creates conflicts in the partnerships or families of origin, as well as role conflicts for the young women themselves. A study by Arcel et al. [22] in Greek and Danish women concluded that suicidal women were severely dominated by their partners and were also quite limited in their mobility. The traditional Turkish family has a hierarchical structure guided largely by gender and age [23]. Young women living in Western countries tend to get better integrated into the new culture by school peers etc., whilst older women more often stay within their traditional family and culture. Therefore, younger women are more likely to encounter conflicts between the traditional gender role as expected by their parents and partners and the Western gender role as expected by their social and professional peers. Furthermore, this new gender role opens the door to much more autonomy and self-determination. Within the traditional family structure, young women are in a very weak position and may regard suicide as the only solution for their conflicts.

Gelöscht: [19]

Gelöscht: [20].

In their study of adolescent girls who engaged in nonfatal suicidal behaviour, Simons and Murphy [24] found that immigrant women have a tendency towards a feeling of estrangement from significant others during the migration process. Consistent with our clinical observations, Cosar et al. [25] and Khan et al. [26] reported that marriages arranged by the women's parents in Turkey or Pakistan respectively can also be a risk factor for suicidal behaviour in young women.

Gelöscht: In their study of adolescent girls who engaged in nonfatal suicidal behaviour, Simons and Murphy [21] found that immigrant women have a tendency towards a feeling of estrangement from significant others during the migration process. Consistent with our clinical observations, Cosar et al. [22] and Khan et al. [23] reported that marriages arranged by the women's parents in Turkey or Pakistan respectively can also be a risk factor for suicidal behaviour in young women. ¶

In our study, the rate of suicide attempts in immigrants was higher than that quoted for the resident Turkish population. Only one Turkish person had attempted suicide before immigration. Thus, the distress caused by the *immigration process* might play a role and should be regarded as an important aspect of suicide prevention programs.

As regards the main reasons for the suicide attempt, in our study, relationship difficulties were most frequently named as the main reason in either patient group. Grootenhuis et al. [27] in their study in suicide attempters referred to general hospitals in Oxford, UK, and Utrecht, Netherlands, arrived at similar findings.

Gelöscht: [24]

Another finding to note in our study was that *Turkish female immigrants suffered from violence within the partnership more often* than their Swiss counterparts. In the hierarchically structured immigrant families, men may attempt to maintain the status quo by means of violence [28], a phenomenon which tends to emerge as a consequence of the migration process. Yilmaz and Battegay [29] reported that physically abused female Turkish immigrants with a psychiatric disorder attempted suicide significantly more often than a similar group of

Gelöscht: [25]

Gelöscht: [26]

women not exposed to violence. Based on these findings and the results from studies conducted in other cultures, domestic and partnership violence is a relevant risk factor for suicide attempts [30, 31].

Gelöscht: [27, 28]

Suicide attempters in Western countries are frequently single and socially isolated [32-34].

Gelöscht: [29-31].

This is consistent with our finding that many Swiss suicide attempters mentioned social isolation as their main problem associated with the suicide attempt. In contrast, significantly more suicide attempters in the Turkish immigrant group were married and/or lived together with a partner and/or their children. Compared with our Swiss patients, the *Turkish patients were thus better integrated into a family structure* in general, probably because of the strong family-oriented lifestyle typical for the Turkish culture [35]. Therefore, the risk factor of being single and/or socially isolated reported in studies in Western countries seems to be less applicable to Turkish immigrants.

Gelöscht: [32].

Numerous studies have shown that suicide attempters are often unemployed [36, 37]. In our study, there was no significant difference between the Turkish and Swiss suicide attempters with respect to the incidence of unemployment.

Gelöscht: [33, 34].

Studies from Western countries have demonstrated that alcohol and drug dependence increases the risk for suicidal attempts [38-42]. However, Akvardar et al. [43] reported that dependence on illegal drugs in Turkey is rare. In our study, no suicide attempters from Turkey manifested a dependency on illegal drugs.

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Gelöscht: [40]

As regards the *methods of suicide attempts*, there were no significant differences between the two groups regarding the frequency of self-poisoning as compared to self-injury. However, there was a difference within the self-poisoning group. *Immigrants used analgesics more often*, whilst Swiss patients tended to favour benzodiazepines. This is well in accordance with our recent study [10]. The difference reflects, in part, the relatively easier availability of these substances to the respective groups. Another study revealed that immigrants from Turkey often suffer from psychosomatic symptoms, particularly pain syndromes [14]; hence, the prescribed analgesics would be more readily available to the immigrant suicide attempters.

Gelöscht: [10].

Gelöscht: [13]

Kareem and Littlewood [44] reported that ethnic minorities are overrepresented in psychiatric inpatient units as compared to members of the native population. However, our study revealed

Gelöscht: [41] reported that ethnic minorities are hospitalized more often in psychiatric inpatient units than members of the local population.

that similar proportions of Turkish and Swiss suicide attempters were admitted to a psychiatric hospital. This may have been due to the culturally sensitive clinical practice (of both evaluation and treatment) by the psychiatric consultation service with a Turkish-speaking psychiatrist (first author) present during the time of the study. We believe that this culturally sensitive practice ensured equal aftercare arrangements for the Turkish immigrants and Swiss patients.

Limitations

In our study only patients admitted to the emergency service of the central university hospital were assessed. Although this is the only emergency service dealing with severe suicide attempts for the region, some patients, especially with less severe attempts, might have been treated elsewhere. Results can therefore only be generalized regarding severe suicide attempts.

Interpretation of our results also has to take into account that in this Case Control Study we only matched for age and sex. Some of the differences of migrants and Swiss might therefore not be directly due to nationality/migration, but confounded by differences in intervening factors such as socioeconomic status. Matching for this would on the other hand have prevented us from getting a realistic impression of pending problems in the care for migrants.

Conclusion

Implications for prevention of suicidal behaviour

This study shows noteworthy immigration-specific and socio-cultural differences between suicide attempters among immigrants from Turkey and those in the Swiss population. We believe that such studies help to improve our understanding of suicidal behaviour in various ethnic groups and populations immigrated to Western societies. Female immigrants from Turkey aged 15 to 25 years appear to be at a particularly high risk of attempting suicide and should thus receive special attention in the prevention of suicidal behaviour.

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Table 1 Number and percentages of Turkish suicide attempters by age group and gender

Age (years)	Women		Men		Total	
	n = 48	68.6%	n = 22	31.4%	n = 70	100.0%
15-19	14	29.2%	4	18.2%	18	25.7%
20-24	13	27.1%	2	9.1%	15	21.4%
25-29	4	8.3%	4	18.2%	8	11.4%
30-34	5	10.4%	8	36.4%	13	18.6%
35-39	5	10.4%	3	13.6%	8	11.4%
40-44	3	6.3%	0	0%	3	4.3%
45-49	3	6.3%	1	4.5%	4	5.7%
50-54	1	2.1%	0	0%	1	1.4%

Table 2 Annual suicide-attempt rates (per 100,000 persons) in female and male immigrants from Turkey

Year	Women		Men		Total	
	n = 48	Rate	n = 22	Rate	n = 70	Rate
1991	6	310.1	2	67.9	8	164.0
1992	6	285.0	3	105.0	9	181.3
1993	7	310.4	3	102.1	10	192.5
1994	7	294.5	6	198.6	13	240.8
1995	8	322.4	2	65.0	10	180.0
1996	7	274.4	3	96.1	10	176.3
1997	7	267.4	3	96.0	10	174.1

Formatiert: Einzug: Links: 0 cm,
Hängend: 1.75 cm

Table 3 Mean ages at current and first suicide attempts, and mean interval between immigration and first suicide attempt in male and female Turkish immigrants

Variable	Women	Men	t-test df = 68		Total
	n = 48	n = 22	t	p	
Mean age at current suicide attempt, years (\pm SD)	26.7 (9.8)	29.4 (7.9)	1.55	n.s	27.6 (9.3)
Mean age at first suicide attempt, years (\pm SD)	26.1 (9.2)	28.9 (8.0)	0.24	n.s	27.0 (8.9)
Mean interval between immigration and first suicide attempt, years (\pm SD)	8.9 (5.0)	7.6 (4.7)	1.02	n.s	8.5 (4.9)

n.s., not significant; SD, standard deviation

Table 4 Main problems leading to attempted suicide in Turkish and Swiss patients

Main problem	Turkish		Swiss	
	n	(%)	n	(%)
Relationship with partner	44	62.9	38	54.3
Employment/financial	5	7.1	5	7.1
Relationship with parents	9	12.8	9	12.8
Social isolation	0	0	10	14.3
Threat or rejection of status as refugee	6	8.6	0	0
Exacerbation of psychiatric disorder	5	7.1	6	8.6
Other	1	1.4	2	2.8

Fisher's exact test: $p \leq .01$

Table 5 Methods used in attempting suicide by Turkish and Swiss patients

Method/Drugs	Turkish		Swiss	
	n	(%)*	n	(%)*
Benzodiazepines	12	17.1	21	30.0
Non-narcotic analgesics	17	24.3	5	7.1
Antidepressants	11	15.7	8	11.4
Antipsychotics	7	10.0	8	11.4
Alcohol	2	2.9	5	7.1
Other self-poisoning	18	25.7	19	27.1
Cutting of wrist or arm	6	8.6	6	8.6
Other self-injury	4	5.7	5	7.1

*The percentages add up to more than 100 because more than one method may have been used by any suicide attempter.

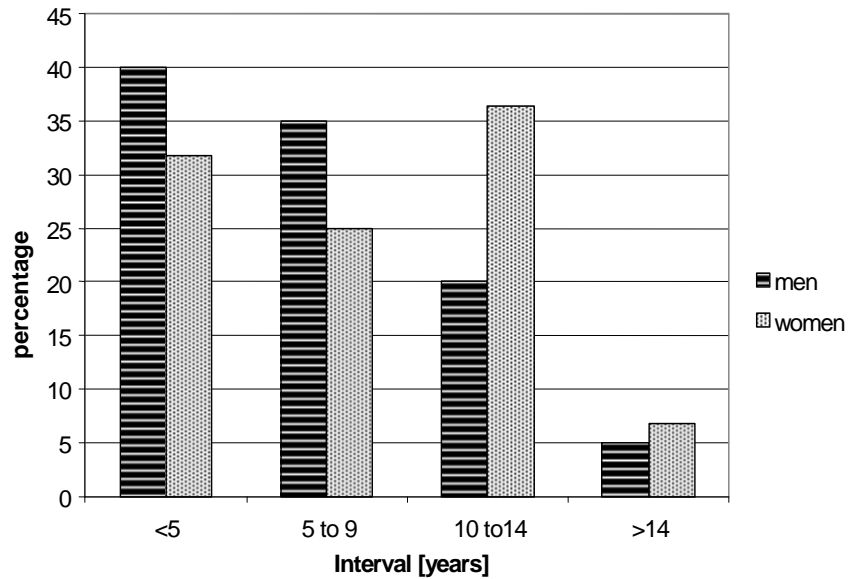


Figure 1 Interval between immigration and first suicide attempt in Turkish patients (five subjects born in Switzerland and one subject with a first suicide attempt before immigration were excluded).